



SEQUENCE LISTING

<110> Anderson, Christen M.
Davis, Robert E.
Clevenger, William
Wiley, Sandra Eileen
Willer, Scott W.
Szabo, Tomas R.
Ghosh, Soumitra S.

<120> PRODUCTION OF ADENINE NUCLEOTIDE
TRANSLOCATOR (ANT), NOVEL ANT LIGANDS AND SCREENING ASSAYS
THEREFOR

<130> 660088.420

<140> US 09/195,904

<141> 1999-11-03

<160> 33

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 344

<212> DNA

<213> Homo sapien

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gcagtcgtaa	ggctgtctgc	ctaccccttc	gacactgttc	gtcgtagaat	gatgatgcag	720
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gcataaagct	aaggagccaa	ggcctctctc	aaaggtgcct	ggctccaatgt	gctgagaggg	840
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<212> DNA

<213> Homo sapien

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gocagcaaac	agatcactgc	agataagcaa	tacaaaggga	tcattgattg	tgtgggtgaga	180

attcccaagg	agcaggaagt	tctgtccttc	tggcgcggtg	acctggccaa	tgtcatcaga	240
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gcagcagg	agatcgccgc	cgacaaggag	tacaaggcca	tcgtggactg	catctgcgcg	180
atccccaagg	agcagggcgt	gtgtccttcc	tggaggggca	accttgccaa	cgtcattcgc	240
tacttcccc	cccaggcct	caacttcg	tcacaaggata	agtacaagca	gatcttcctg	300
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cagtcggggg	gcacaggagg	tgacatcatg	tacacaggca	cgctcgactg	ctggagggaag	780
atcttcagag	atgagggggg	caaggccttc	ttcaagggtg	cgtgggtcaa	cgtcctgcgg	840
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<220>

<221> PCR Primer

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 <400> 6
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 <210> 10
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 <220>
 <223> Sequence primer

 <400> 10
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 <210> 11
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<220>

<223> Mutagenic oligonucleotide primer

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<210> 13

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<212> DNA

<213> Artificial Sequence

<400> 13

gatctgtacg acgatgagga taagatgagc gaacaggcca tctcc 45

<210> 14

<211> 35

<212> DNA

<213> Artificial Sequence

<220>

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<400> 14

cccggggaat tctgatgagc gaacaggcca tctcc 35

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<211> 34

<212> DNA

<213> Artificial Sequence

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<210> 16

<211> 41

<212> DNA

<213> Artificial Sequence

<400> 16

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<210> 17

<211> 41

<212> DNA

<213> Artificial Sequence

<400> 17

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<210> 18

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<212> DNA

<213> Artificial Sequence

<220>

<223> Sequencing primer

<400> 18
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<400> 19
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<210> 20
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<400> 20
 acttcgcttc caggata 18

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<400> 21
 taaggcgaag ggcattct 18

<210> 22
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<400> 22
 tgaagcgaag ggccttat 18

<210> 23
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<400> 23
 atgcgggttc ccgtacga 18

<210> 24
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<400> 24
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<210> 25
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 <400> 25
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 <223> PCR primer

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 <210> 27
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 <400> 27
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 <210> 28
 <211> 42
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 <400> 28
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 <210> 29
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 <400> 29
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 <210> 30
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 <212> PPT
 <213> Artificial Sequence

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 1 5 10 15

<210> 31
 <211> 297
 <212> PRT
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<400> 31

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Lys	Leu	Leu	Leu	Gln	Val	Gln	His	Ala	Ser	Lys	Gln	Ile	Ser	Ala	Glu
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Lys	Gln	Tyr	Lys	Gly	Ile	Ile	Asp	Cys	Val	Val	Arg	Ile	Pro	Lys	Glu
	50					55					60				
Gln	Gly	Phe	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg
65					70				75					80	
Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys
				85					90					95	
Gln	Leu	Phe	Leu	Gly	Gly	Val	Asp	Arg	His	Lys	Gln	Phe	Trp	Arg	Tyr
			100					105					110		
Phe	Ala	Gly	Asn	Leu	Ala	Ser	Gly	Gly	Ala	Ala	Gly	Ala	Thr	Ser	Leu
		115					120					125			
Cys	Phe	Val	Tyr	Pro	Leu	Asp	Phe	Ala	Arg	Thr	Arg	Leu	Ala	Ala	Asp
	130					135					140				
Val	Gly	Arg	Arg	Ala	Gln	Arg	Glu	Phe	His	Gly	Leu	Gly	Asp	Cys	Ile
145					150					155				160	
Ile	Lys	Ile	Phe	Lys	Ser	Asp	Gly	Leu	Arg	Gly	Leu	Tyr	Gln	Gly	Phe
				165					170				175		
Asn	Val	Ser	Val	Gln	Gly	Ile	Ile	Ile	Tyr	Arg	Ala	Ala	Tyr	Phe	Gly
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Val	Tyr	Asp	Thr	Ala	Lys	Gly	Met	Leu	Pro	Asp	Pro	Lys	Asn	Val	His
	195						200					205			
Ile	Phe	Val	Ser	Trp	Met	Ile	Ala	Gln	Ser	Val	Thr	Ala	Val	Ala	Gly
	210					215						220			
Leu	Leu	Ser	Tyr	Pro	Phe	Asp	Thr	Val	Arg	Arg	Arg	Met	Met	Met	Gln
225					230				235						240
Ser	Gly	Arg	Lys	Gly	Ala	Asp	Ile	Met	Tyr	Thr	Gly	Thr	Val	Asp	Cys
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Trp	Arg	Lys	Ile	Ala	Lys	Asp	Glu	Gly	Ala	Lys	Ala	Phe	Phe	Lys	Gly
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Ala	Trp	Ser	Asn	Val	Leu	Arg	Gly	Met	Gly	Gly	Ala	Phe	Val	Leu	Val
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Leu	Tyr	Asp	Glu	Ile	Lys	Lys	Tyr	Val							
	290					295									

<210> 31
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 <212> PRT
 <213> Homo sapien

<400> 31

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				20				25					30		
Lys	Leu	Leu	Leu	Gln	Val	Gln	His	Ala	Ser	Lys	Gln	Ile	Thr	Ala	Asp
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Lys	Gln	Tyr	Lys	Gly	Ile	Ile	Asp	Cys	Val	Val	Arg	Ile	Pro	Lys	Glu
	50					55					60				
Gln	Glu	Val	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg
65					70					75					80
Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys
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Gln	Ile	Phe	Leu	Gly	Gly	Val	Asp	Lys	Arg	Thr	Gln	Phe	Trp	Arg	Tyr
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Val	Gly	Lys	Ala	Gly	Ala	Glu	Arg	Glu	Phe	Arg	Gly	Leu	Gly	Asp	Cys
145					150					155					160
Leu	Val	Lys	Ile	Tyr	Lys	Ser	Asp	Gly	Ile	Lys	Gly	Leu	Tyr	Gln	Gly
				165					170					175	
Phe	Asn	Val	Ser	Val	Gln	Gly	Ile	Ile	Ile	Tyr	Arg	Ala	Ala	Tyr	Phe
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Gly	Ile	Tyr	Asp	Thr	Ala	Lys	Gly	Met	Leu	Pro	Asp	Pro	Lys	Asn	Thr
		195					200					205			
His	Ile	Val	Ile	Ser	Trp	Met	Ile	Ala	Gln	Thr	Val	Thr	Ala	Val	Ala
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Gly	Leu	Thr	Ser	Tyr	Pro	Phe	Asp	Thr	Val	Arg	Arg	Arg	Met	Met	Met
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Gln	Ser	Gly	Arg	Lys	Gly	Thr	Asp	Ile	Met	Tyr	Thr	Gly	Thr	Leu	Asp
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Cys	Trp	Arg	Lys	Ile	Ala	Arg	Asp	Glu	Gly	Gly	Lys	Ala	Phe	Phe	Lys
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Gly	Ala	Trp	Ser	Asn	Val	Leu	Arg	Gly	Met	Gly	Gly	Ala	Phe	Val	Leu
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<210> 33
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<212> PET
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			20					25					30		
Lys	Leu	Leu	Leu	Gln	Val	Gln	His	Ala	Ser	Lys	Gln	Ile	Ala	Ala	Asp
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Lys	Gln	Tyr	Lys	Gly	Ile	Val	Asp	Cys	Ile	Val	Arg	Ile	Pro	Lys	Glu
		50				55					60				
Gln	Gly	Val	Leu	Ser	Phe	Trp	Arg	Gly	Asn	Leu	Ala	Asn	Val	Ile	Arg
65					70					75				80	
Tyr	Phe	Pro	Thr	Gln	Ala	Leu	Asn	Phe	Ala	Phe	Lys	Asp	Lys	Tyr	Lys
				85					90					95	
Gln	Ile	Phe	Leu	Gly	Gly	Val	Asp	Lys	His	Thr	Gln	Phe	Trp	Arg	Tyr

Phe Ala Gly Asn Leu Ala Ser Gly Gly Ala Ala Gly Ala Thr Ser Leu 110
 100
 Cys Phe Val Tyr Pro Leu Asp Phe Ala Arg Thr Arg Leu Ala Ala Asp 125
 115
 Val Gly Lys Ser Gly Thr Glu Arg Glu Phe Arg Gly Leu Gly Asp Cys 140
 130
 Leu Val Lys Ile Thr Lys Ser Asp Gly Ile Arg Gly Leu Tyr Gln Gly 160
 145
 Phe Ser Val Ser Val Gln Gly Ile Ile Ile Tyr Arg Ala Ala Tyr Phe 175
 165
 Gly Val Tyr Asp Thr Ala Lys Gly Met Leu Pro Asp Pro Lys Asn Thr 190
 180
 His Ile Val Val Ser Trp Met Ile Ala Gln Thr Val Thr Ala Val Ala 205
 195
 Gly Val Val Ser Tyr Pro Phe Asp Thr Val Arg Arg Arg Met Met Met 220
 210
 Gln Ser Gly Arg Lys Gly Ala Asp Ile Met Tyr Thr Gly Thr Val Asp 240
 225
 Cys Trp Arg Lys Ile Phe Arg Asp Glu Gly Gly Lys Ala Phe Phe Lys 255
 245
 Gly Ala Trp Ser Asn Val Leu Arg Gly Met Gly Gly Ala Phe Val Leu 270
 260
 Val Leu Tyr Asp Glu Leu Lys Lys Val Ile 285
 275
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 295